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) x j i-	ω-r (عربيات منبر
19-W-1) d-1	(s2+a2)	(),)	11 11-0	, t ;
A BS+C S S2+ar	AS 2 + C	1a2-2 1-1	25.3	2 1-61
A+B=0. B=	ar (5-1))-i, 'b	1-(1-2)	
Aa2-1 A=	n2 + 0	- /ete-	(5-52-3)	1
d-1(1 (12))+d-1(-1 -1 -1 -1 -1)=1	et 1 co	sat =
i-cosat	A:C		05+0	AS + B
12-0-1) d	$\left(\frac{2^{S}}{\left(S^{2}-1\right)^{Y}}\right)$	A 1 (S+1)2 S-1	(S-1) ⁸
AS-A ($S^{2}-1$)= B($S^{2}-25+1$)= CS+C($S^{2}-1$)= D($S^{2}+25+1$)=	Bs ² 2Bs,	Cs_C	b= 1	1- 4-1
Bahare danesh asl	1/5 + 1/5+			

Subject: Date: / / $d^{-1}\left(\frac{1}{2}\left(\frac{1}{(s-1)^2}\right)^3\right)$ - 1 (et. ett) tsinht $\frac{1}{1} d^{-1} \left(\frac{S}{S^2 - 2S + 3} \right) = d^{-1} \left(\frac{S - 1 + 1}{S^2 - 2S + 1 + 2} \right)$ $\frac{(S-1)+1}{(S-1)^2}$ $\frac{d^{-1}}{(S-1)^2}$ $\frac{1}{\sqrt{2}}$ $\frac{d^{-1}}{(S-1)^2}$ $\frac{\sqrt{2}}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ d-1(=s)=\etcosJ2t + etsinJ2t\ 2) d^{-1} (85) 85 - 85 - 85 5^4+64 (5^2+8)²-(65 (5^2+8+45)(5^2+8-45) AS+B CS+D A+C=0 -4A+B+4C+D=0 S2+8+45 S2+8-45 8A-4B+8C+4D-8 A-C=0, P=1, B=-1 8B+8P= $\frac{d^{-1}\left(\frac{-1}{(S+2)^2+4}\right) + d^{-1}\left(\frac{1}{(S-2)^2+4}\right) = \frac{-1}{2}e^{-2t}\sin 2t + \frac{1}{2}e^{2t}\sin 2t$ = sin et (e2t_e-2t) = sinet sinhet Bahare danesh asl

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3) (lu (s-a) => lu (s-a) = lu (s-a) = lm (s-b) -1					
F/S-a S-b F(S)					
\d'\ e^4t_e^5t(-t)_se^5t_e^4t					
4) d-1(cotg-1(s+3)=> d-1(-1)=F(s)-e-strut					
to +0)(1+0) (5+0)(1+0) (5+0)(1+0)(1+0)					
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Subject:

$$\Rightarrow S^{2}F(s) - 25 + 1 + 35F(s) - 6 + 2F(s) - \frac{2}{S^{2} + 4}$$

$$(S_{+}^{2}35+2)F(5) = \frac{3}{5^{2}+4} + 25+5$$

$$C_{S+2C}(S^{2}+4) = C_{S}^{3} + 2C_{S}^{2} + 4SC_{+}8C_{+}$$

$$D_{5}+D(S^{2}+4)=D_{5}^{3}+D_{5}^{2}+4D_{5}+4D_{5}$$

$$A+C+D=0$$
 $A+4C+1-SC=0$

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2-6C,
$$16C_{+}$$
 2- $16C_{-}$ 4 \times

2C-2+6- $18C_{+}$ $16C_{+}$ 4 \times 2aC=0

2oC=8 \times C-8 = 2 = \times 3 = \times 4 = \times 4 | D=-1,25 |

A=-0,6 - \times 4 | S=2-3,4=-1| D=-1,25 |

-1/5 S -0,1(U) - 1/4 - 1/2 S d^{-1}

S^2+4 - (2)S^{0}+4 - S+1 - S+2

-0,1 S cos 2t - 0,1 S sin 2t + 0,4 e^{-1} - 0,2 S e^{-2t}

② 2S-AS+A+BS+2B - 2B+A=0 - B=2

2B+2A=2x21 A=4

③ AS+A+BS+2B=5 - A+B=0 - A=B

A+2B=5 - B=S A=-S

①+②+③ - 3 cos 2t - 1 sin 2t + 17 e^{-t} - 5 e^{-2t} - 9

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Subject:

$$\frac{d4}{y} = \frac{5}{5^2 + 25} d5 = \ln[-(2-5)] + C$$

$$y(0)=1 \longrightarrow C_2e^c=1 \longrightarrow C_2=1$$

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Subject:

Date: / =>-3(c-t)+t3e-t 3 b d tbe-t t-2, e-t ((4+B)-1) =>4=0+0+3= et t (4+b)et + t2 -> y= t-2+e-t (t-1) Bahare danesh asl

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